WHAT IS CLAIMED IS:

1. A waterproof connector, comprising:

a connector housing accommodating a plurality of cavities for receiving terminal fittings connected to ends of electric wires, the cavities having rear open ends formed on a rear surface of said connector housing;

a rubber plug having through-holes at positions corresponding to said respective cavities, through which said electric wires are penetrated with said electric wires in close contact with said through-holes; and

a rubber plug hold-down member that presses said rubber plug against a rear surface of said connector housing and has a plurality of open portions through which said electric wires can be inserted;

wherein at least one inner-side waterproof rib projects from at least one of said rear surface of said connector housing and a front surface of said rubber plug so that said inner-side waterproof rib is pressed against at least one of said front surface of said rubber plug and said rear surface of said connector housing when said rubber plug is pressed against said rear surface of said connector housing, whereby a water penetration path passing inwards through a peripheral portion of said rubber plug is cut off before reaching said rear open ends of said cavities.

2. The waterproof connector of claim 1, wherein at least one outer-side waterproof rib projects from at least one of a rear surface of said rubber plug and a front surface of said rubber plug hold-down member so that said outer-side waterproof rib is pressed against at least one of said front surface of said rubber plug hold-down member and said rear surface of said rubber plug, when said rubber plug is pressed against said rear surface of said connector housing, whereby a water penetration path in an area from said open portions of said rubber plug hold-down member to said side or peripheral portion of said rubber plug can be cut off.

3. The waterproof connector of claim 2, wherein said outer-side waterproof rib surrounds a region corresponding to said rear open ends of said cavities collectively.

4. The waterproof connector of claim 2, wherein said at least one outer-side waterproof rib comprises a plurality of outer-side waterproof ribs surrounding regions corresponding respectively to said rear open ends.

5. The waterproof connector of claim 1, wherein said inner side waterproof rib surrounds a region corresponding to all of said rear open ends.

6. The waterproof connector of claim 1, wherein the at least one inner-side waterproof rib comprises a plurality of inner-side water proof ribs surrounding regions corresponding respectively to said rear open ends.

7. The waterproof connector of claim 1, wherein said rear open ends of said cavities are formed on a rear surface of said connector housing to form a rubber plug accommodation part capable of accommodating said rubber plug; and seal lips capable of water-tightly contacting an inner peripheral surface of said rubber plug accommodation part are formed on a peripheral surface of said rubber plug.

8. A waterproof connector, comprising:

a connector housing with opposite front and rear ends and a plurality of cavities extending through the connector housing, such that each said cavity has an open rear end at the rear end of said connector housing;

a rubber plug having opposite front and rear surfaces, the front surface of the rubber plug being mounted to the rear end of the connector housing, the rubber plug having through-holes at positions corresponding to said respective cavities; and

a rubber plug hold-down member mounted to the connector housing and having a front surface that presses said rubber plug against the rear end of said connector housing, the rubber plug hold-down member having a plurality of open portions aligned respectively with the through-holes of the rubber plug;

wherein at least one inner-side waterproof rib projects from at least one of said rear end of said connector housing and the front surface of said rubber plug so that said inner-side waterproof rib is pressed against at least one of said front surface of said rubber plug and said rear surface of said connector housing when said rubber plug is pressed against said rear surface of said connector housing.

9. The waterproof connector of claim 8, wherein said inner side waterproof rib surrounds a region corresponding to all of said open rear ends.

10. The waterproof connector of claim 8, wherein the at least one inner-side waterproof rib comprises a plurality of inner-side water proof ribs surrounding regions corresponding respectively to said open rear ends.